

# MODEL A10200

## 20GHz 30dBm RF Signal Amplifier

Model A10200 is an ultra-small footprint, ultra wideband, high power amplifier designed for high frequency, high power, signal amplification. With an ultra high bandwidth of almost 20GHz and up to +28dBm power into 50 ohms, the A10200 is the ideal complimentary amplifier to any signal source that needs an extended power boost for demanding applications.



### Enhancing Performance

The A10200 was designed to extend the power range of the Tabor arbitrary waveform generators and RF signal generator for applications, requiring a higher output power to drive their DUT. Combined with the A10200 the Lucid series generators offer a solution for demanding applications requiring up to 20GHz signals at +25dBm into 50 ohms loads, without compromising signal integrity.

### Cost Effective Versatile Solution

While the A10200 was designed with the Tabor units in mind, it can be used as a standalone amplifier for any signal source. The A10200 offers a compatible, compact and cost-effective RF solution for extending any signal source's power performance.

### Target Applications

Target applications for the A10200 are diverse and include various RF applications such as receiver testing, multi-tone testing, and general electronics and scientific applications. The new A10200 is an ideal solution for virtually any wide bandwidth application that requires high power and high frequency signal amplification.

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### Specification

RF CHARACTERISTICS			
<b>RF Connectors:</b>	2.92(k)		
<b>Frequency Range:</b>	100kHz to 20GHz		
<b>Gain:</b>	Min.	Typ.	Max.
100kHz to 100MHz:	11	12	14
100MHz to 3GHz:	12	12.5	13
3GHz to 9GHz:	9	10	11
9GHz to 20GHz:	7	8	9.5
<b>Input Return Loss:</b>	14dB typ. (11dB Min.)		
<b>Output Return Loss:</b>	12dB typ. (8dB Min.)		
<b>P1dB:</b>	28dBm		
<b>Psat:</b>	30dBm		
<b>Output IP3:</b>	38dBm		
<b>Noise Figure:</b>	9dB		
<b>Reverse Isolation:</b>	50dB typ. (40dB Min.)		
<b>Second Harmonic:</b>	23dBc @ Pout +25 dBm		
<b>RF Input Power:</b>	27dBm Max.		
<b>Protection:</b>	Reverse Polarity, Over Voltage, Under Voltage and Over Current		

GENERAL	
<b>Vcc:</b>	20-27V, 24V Nominal
<b>Icc:</b>	450mA typ.
<b>Power Dissipation:</b>	11W typ.
<b>Dimensions:</b>	40 x 30 x 85 mm
<b>Weight:</b>	
Without Package:	110 g
Shipping Weight:	1.25 kg
<b>Temperature:</b>	
Operating:	0°C to +40°C
Storage:	-40°C to +70°C
<b>Warm up time:</b>	15 minutes
<b>Humidity:</b>	85% RH, non-condensing
<b>Safety:</b>	CE Marked, IEC61010-1:2010
<b>EMC:</b>	IEC 61326-1:2013
<b>Calibration:</b>	2 years
<b>Warranty:</b>	1 / 3 year warranty plan



ORDERING INFORMATION	
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